



TAKING ACTION

Environmental Performance at Noranda/Falconbridge

Robert Telewiak
BNTS Stakeholders Forum
June 17, 2004

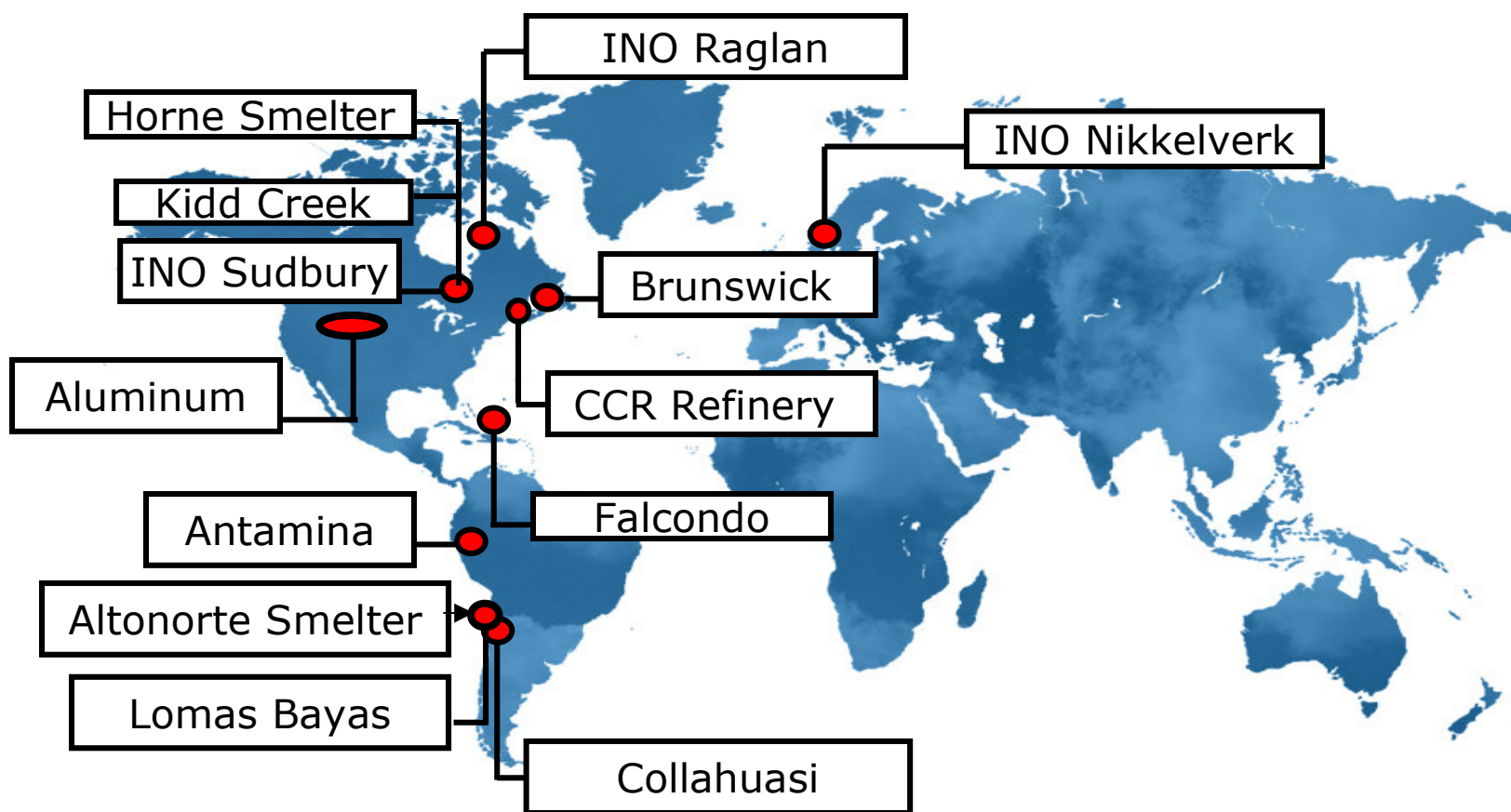
- Overview of Noranda/ Falconbridge
- Our emission reductions of various BNTS toxic substances
- Recycling
- Some thoughts on Virtual Elimination
- Path forward

A Leading Copper and Nickel Company

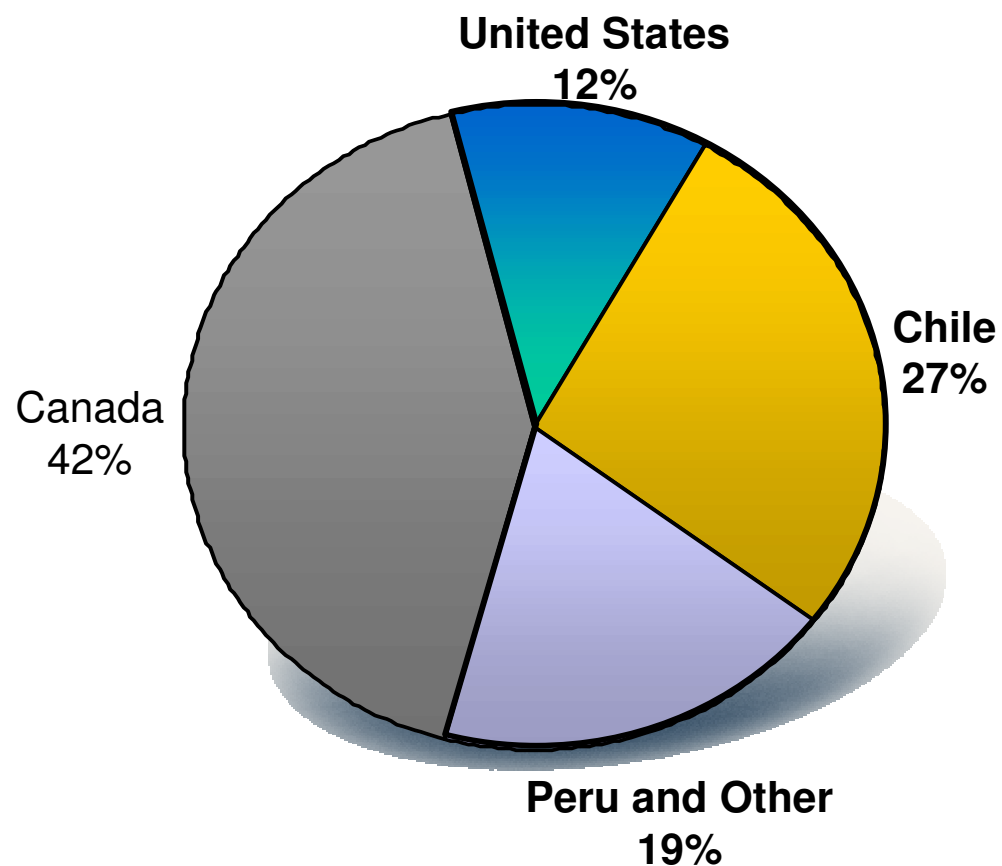
- **Geographically diverse portfolio of mines and metallurgical facilities**
- **Metals base focused on large scale copper and nickel assets**
 - **Over 80% of revenues from nickel and copper**
- **Fully integrated zinc and aluminum producer**
- **Assets of US\$8 billion**
- **2003 revenues of US\$4.7 billion**



Global Producer



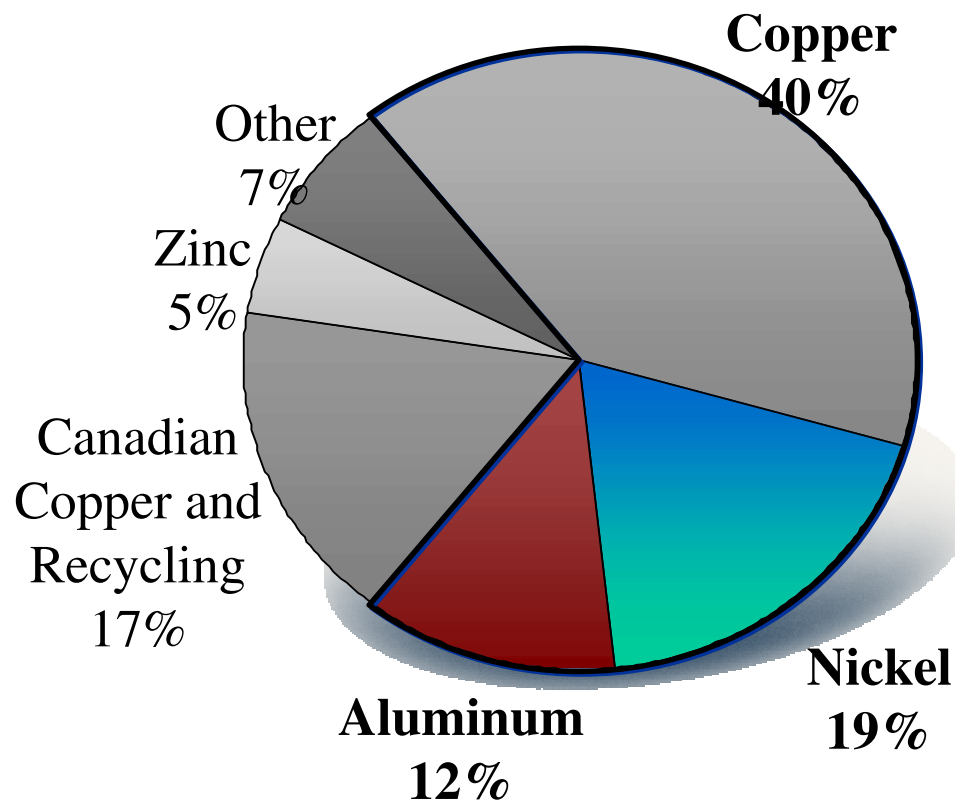
Geographic Diversification



**58% of
assets
outside of
Canada**

Asset Base Reflects Growth Strategy

Asset Base: 2003



**Over 70%
copper, nickel
and aluminum**

Sudbury Smelter, Ontario





Sudbury Smelter, Ontario



Kidd Met, Ontario



Raglan, Quebec



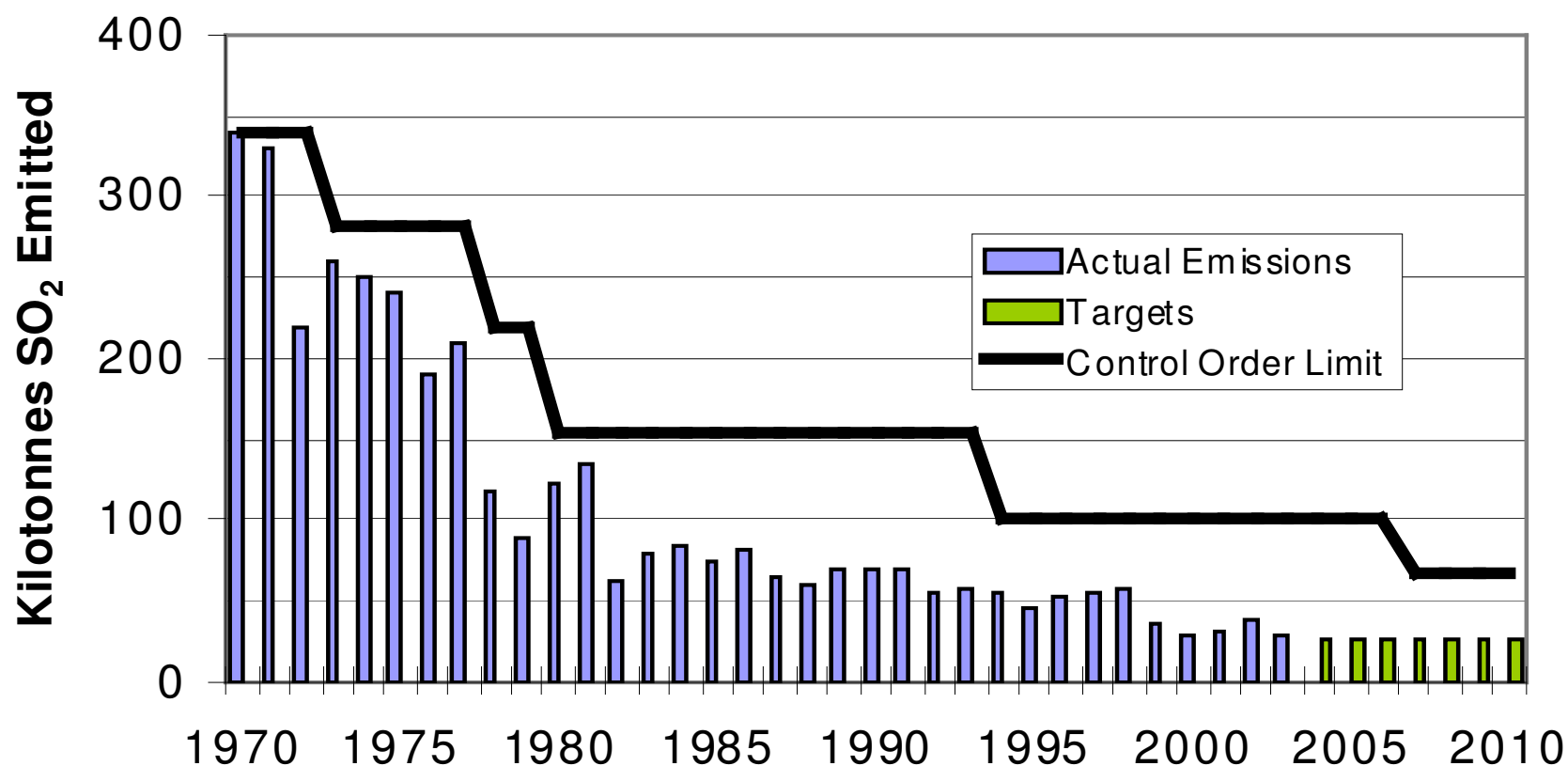
Raglan, Quebec



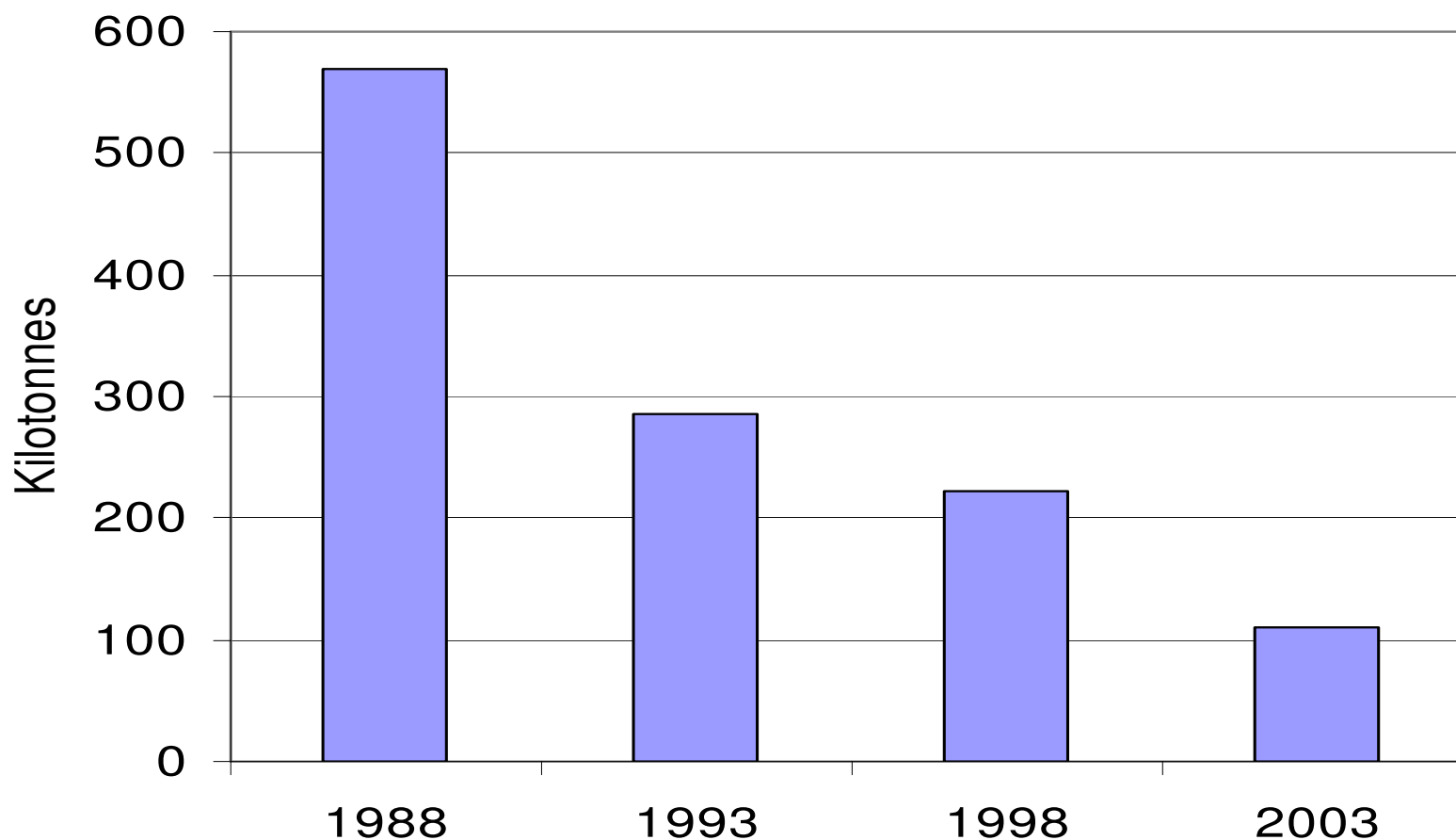
Raglan, Quebec



Falconbridge Sudbury Smelter SO₂ Emissions and Ministry of the Environment Control Order Limit

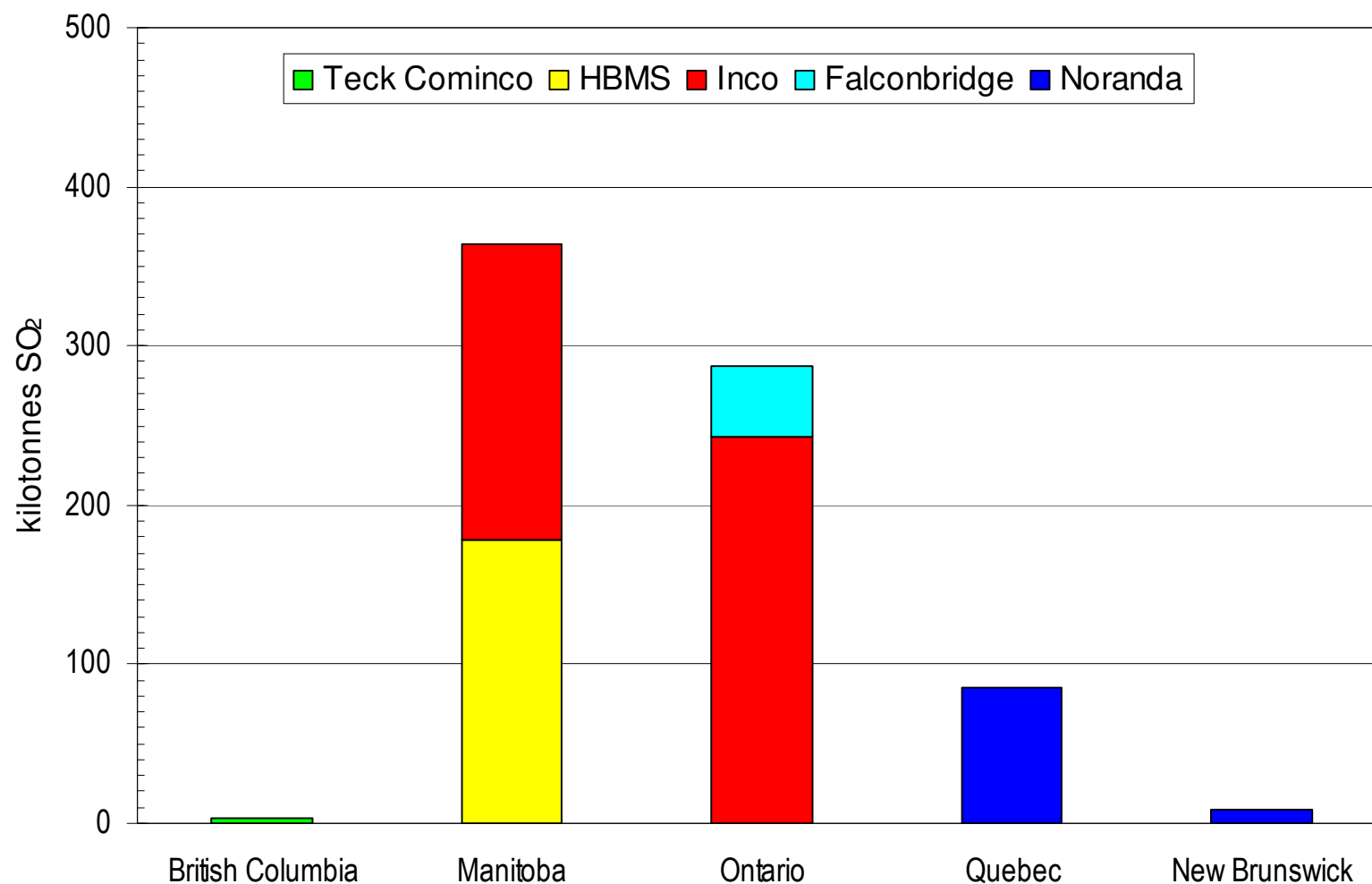


Sulphur Dioxide Emissions from NRD/FL Canadian Smelters & Refineries

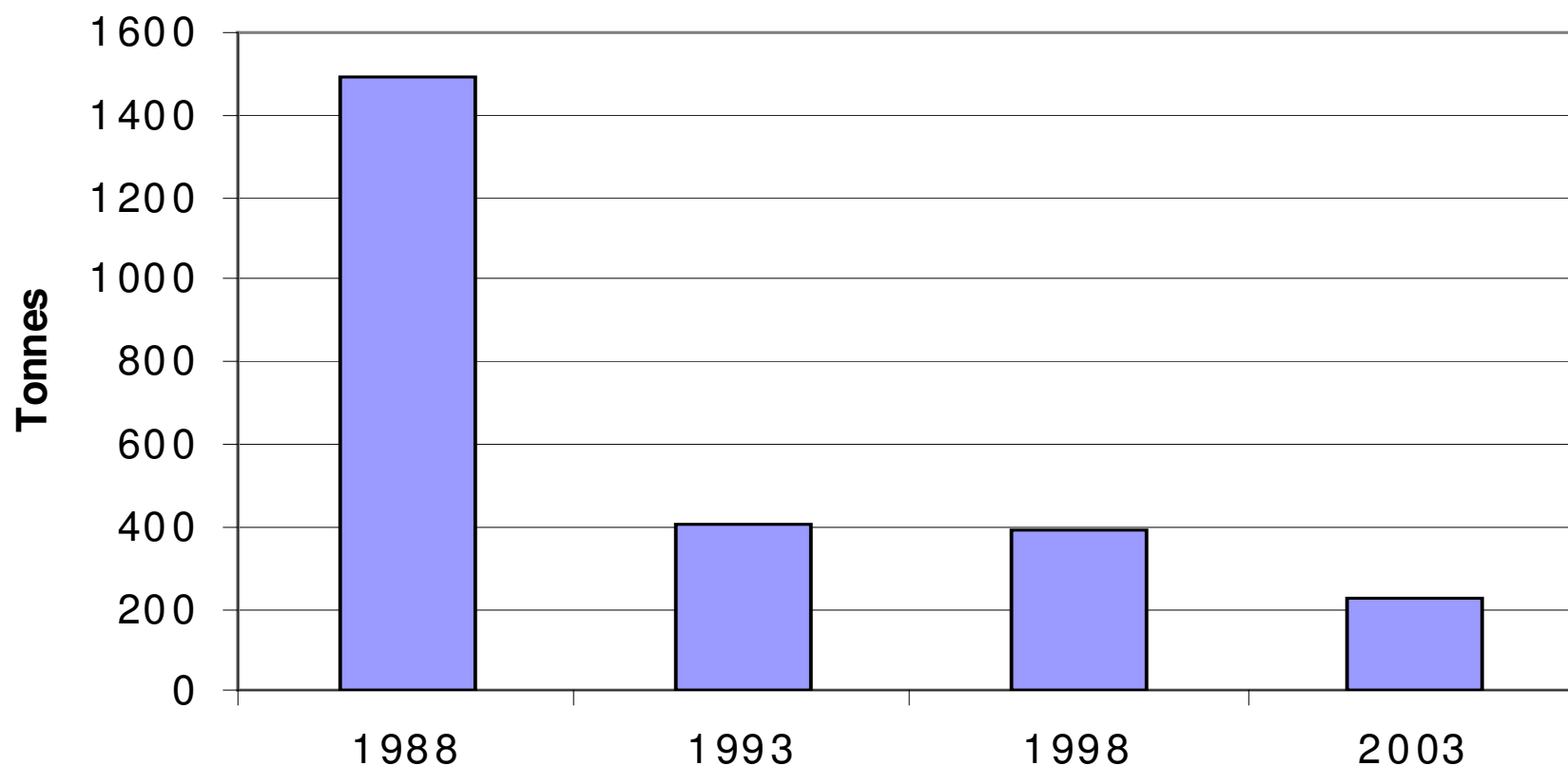


Sulphur dioxide emissions have been reduced by 81% since 1988.

Smelter Emissions of Sulphur Dioxide 2002

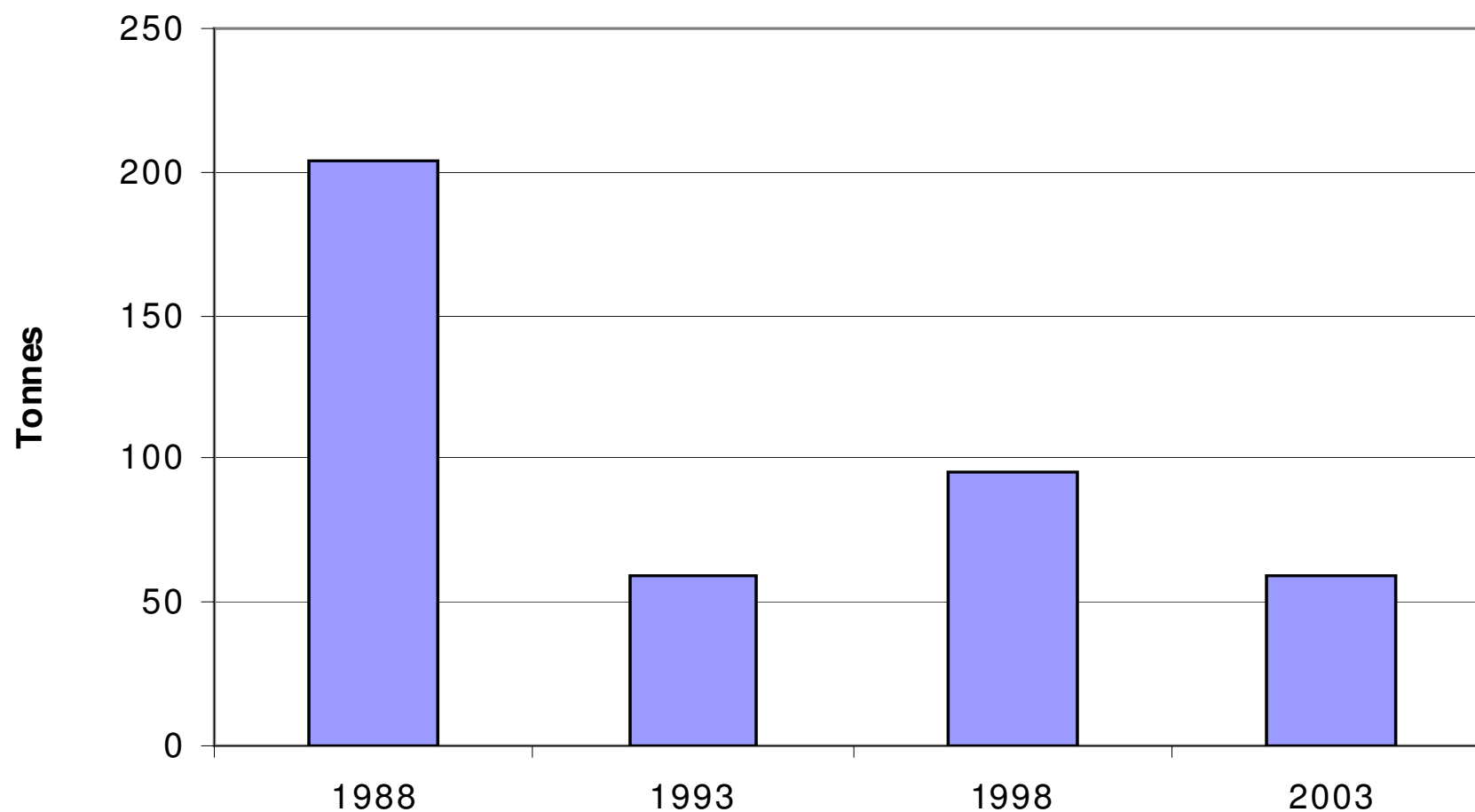


Total Releases from NRD/FL Canadian Smelters & Refineries

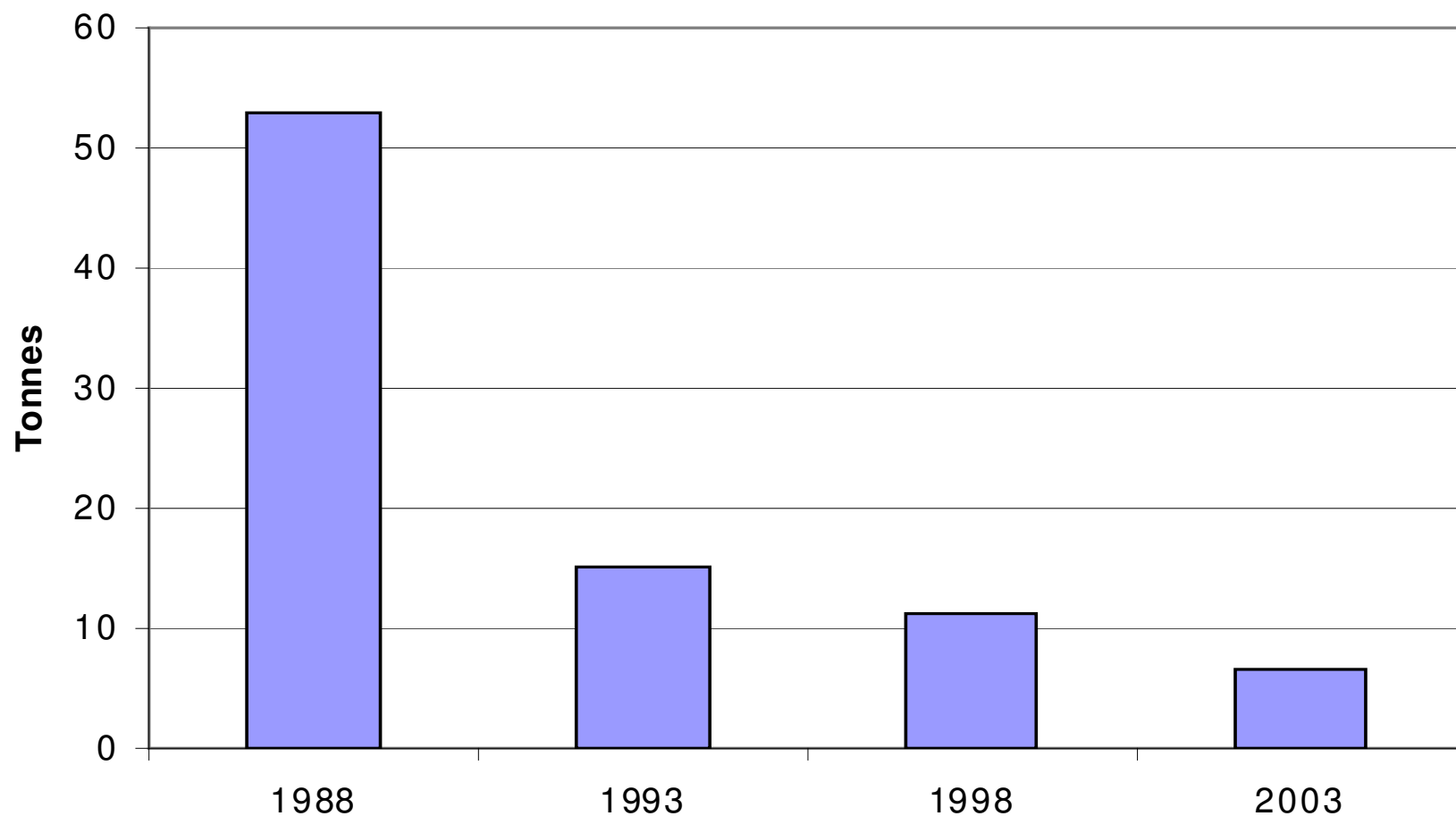


Total releases of arsenic, cadmium, lead, mercury and nickel to air and water have been reduced by 85% since 1988.

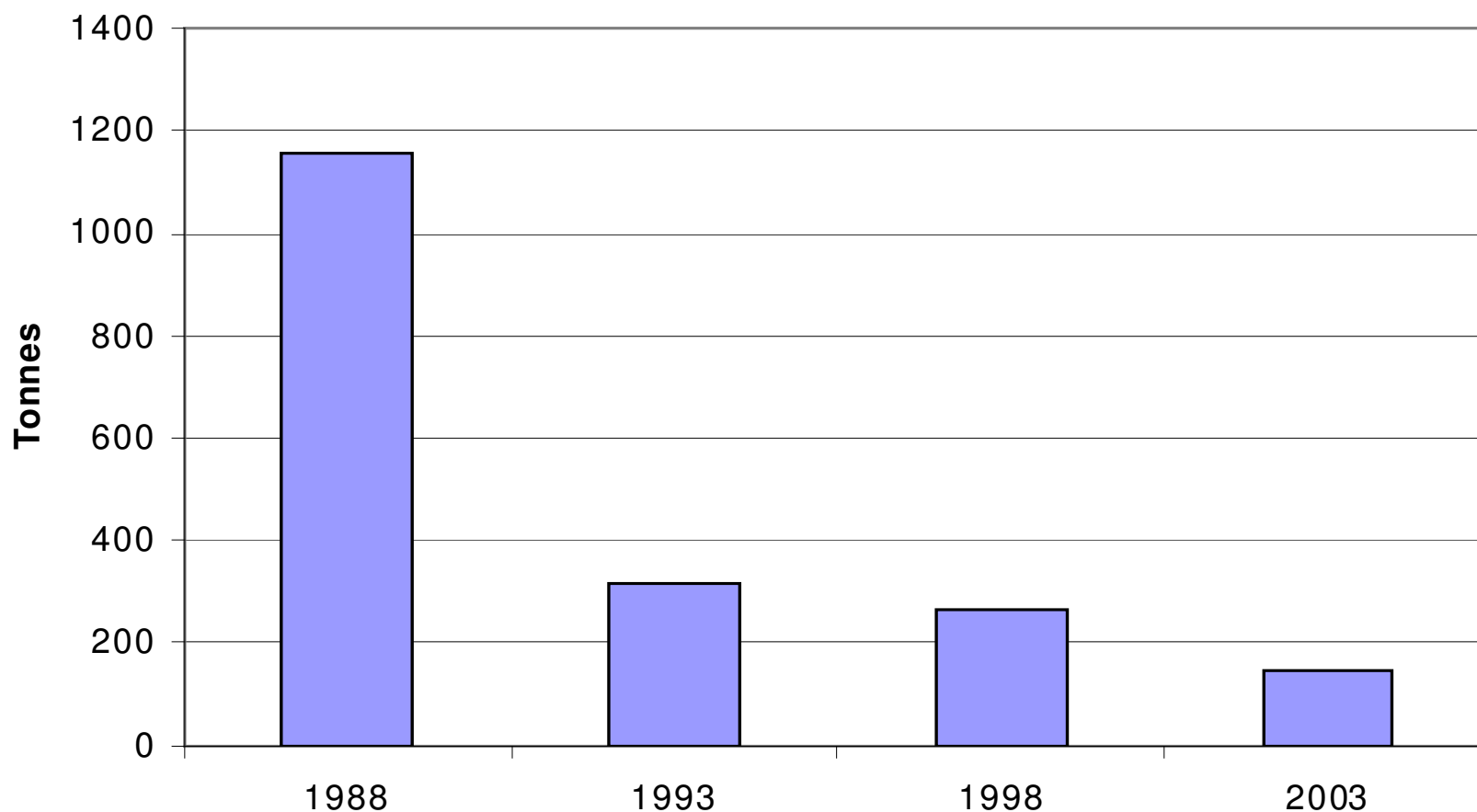
Arsenic Releases from NRD/FL Canadian Smelters & Refineries



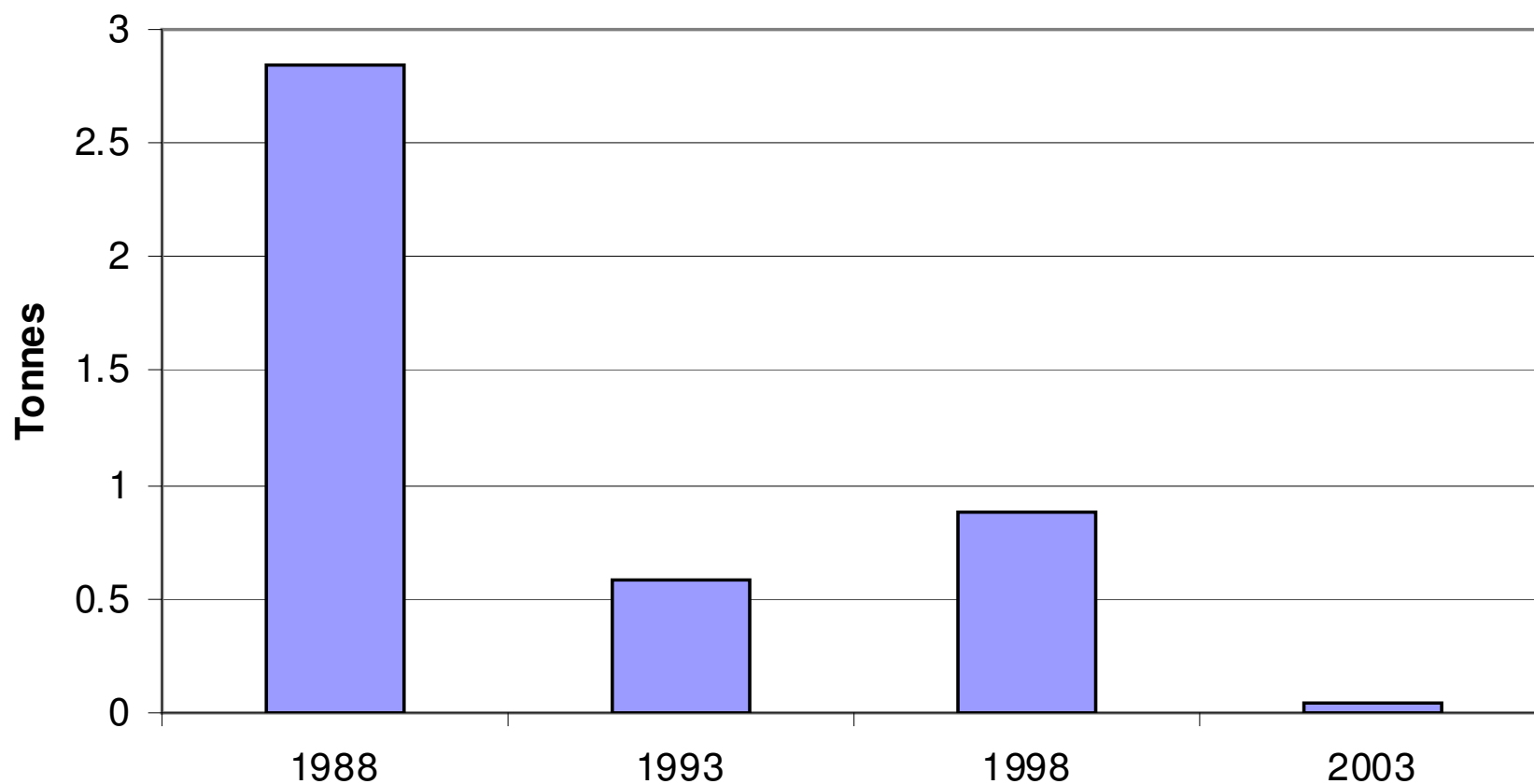
Cadmium Releases from NRD/FL Canadian Smelters & Refineries



Lead Releases from NRD/FL Canadian Smelters & Refineries



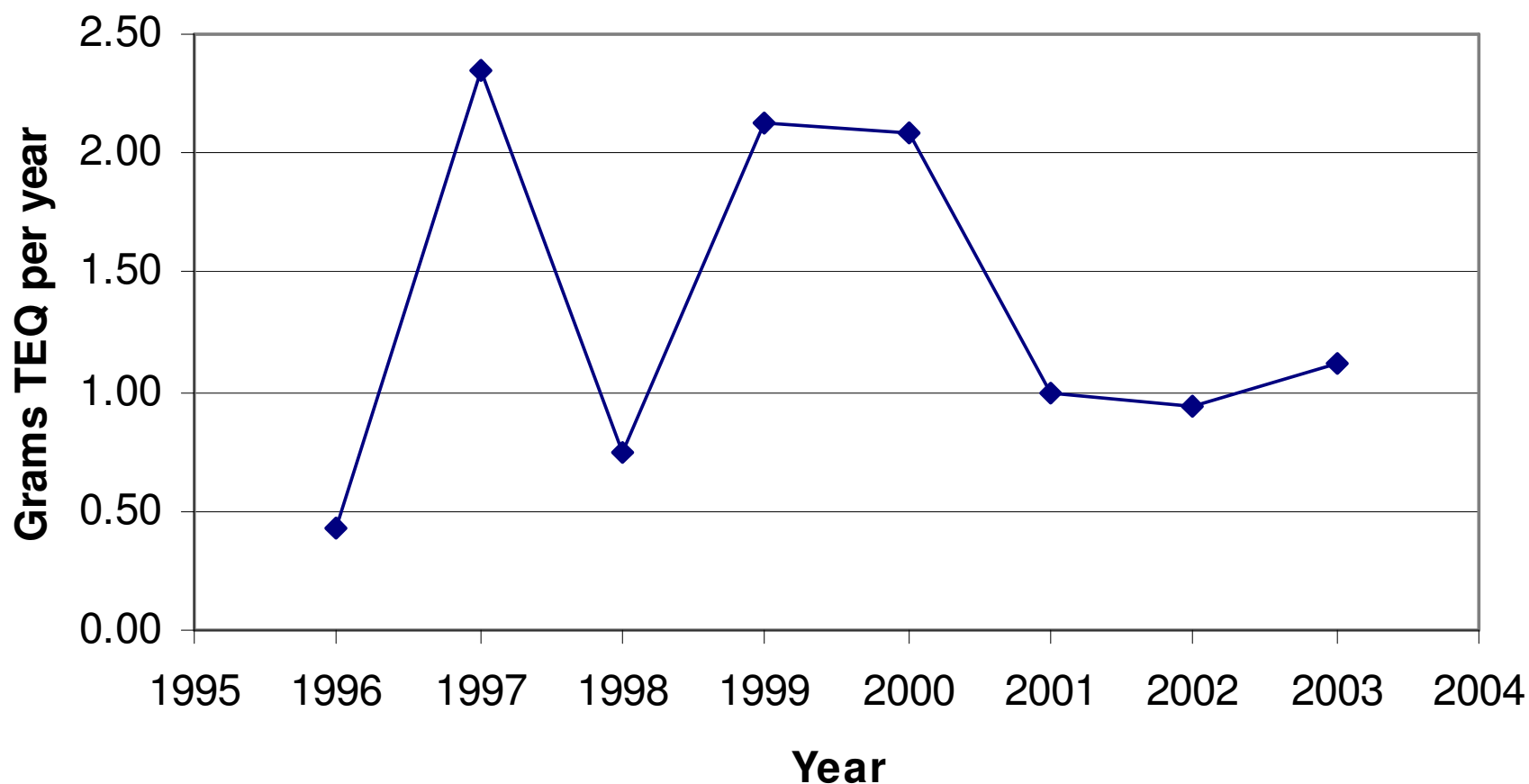
Mercury Releases from NRD/FL Canadian Smelters & Refineries



Dioxins & Furans

- Falconbridge identified in 1996, through a voluntary testing program, that its Sudbury Smelter had significant emissions
- The Canadian mining industry, in cooperation with Environment Canada, embarked on a testing program for Dioxins & Furans
- Sudbury emissions have been reduced from 2.9 g/yr ITEQ in 1997 to 1.1 g/yr ITEQ in 2003.
- Further work on particulate reductions will further reduce these emissions
- Engaged in a cooperative program, with Environment Canada, of research on catalytic destruction

Falconbridge Sudbury Smelter Annual Dioxin and Furan Emissions



- Members of The Mining Association several years ago on a voluntary program to remove PCBs from service.
- Currently very few operations have PCB equipment in service
- Program in place to meet target retirement by Dec 31st 2007.
- All equipment goes for destruction in approved facilities
- At Noranda-Falconbridge we have only four facilities in Canada left with PCB equipment in service
- One, our Lockerby mine will close this year allowing decommissioning of the equipment
- The others plan replacement or removal from service within the next 2 years.





Virtual Elimination

- Need to seriously consider what it means to virtually eliminate toxic substances
- Virtual elimination does not require us to eliminate the last molecule
- Must consider human and environmental health risks when setting regulatory limits to control substance releases to the environment.
- In our view, Canada's approach provides a practical model for cooperative bi-national action.

- We believe that the multi-stakeholder structure within BNTS has been quite successful
- Wide variety of expertise and broad based participation brought together
- We have come to better understand each others needs and interests
- Noranda/Falconbridge looks forward to continuing to support the efforts of BNTS in the next steps forward